

METHOD AND SYSTEM TO MANAGE FIREWALL**Publication number:** JP2000253066 (A)**Publication date:** 2000-09-14**Inventor(s):** BARTAL YAIR; MAYER ALAIN JULES; WOOL AVISHAI +**Applicant(s):** LUCENT TECHNOLOGIES INC +**Classification:**

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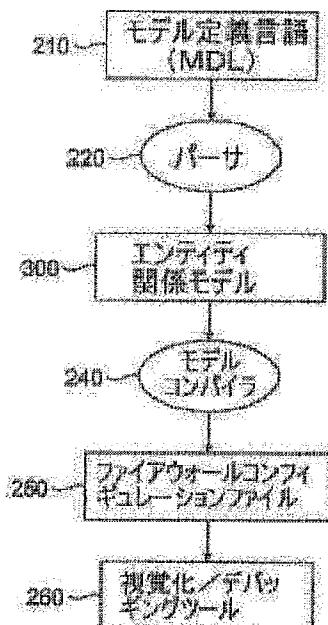
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PROBLEM TO BE SOLVED: To allow a security manager to concentrate on design of a proper security policy without caring about complicated firewall rules, sequence of the rules, and other subordinate configuration problems. **SOLUTION:** A firewall manager uses a model definition language (MDL) 210 and a related parser 220 to generate an entity relation model 300. A model compiler 240 interprets the entity relation model 300 into a proper firewall configuration file 250. The entity relation model 300 provides a framework expressing both a security policy independent of the firewall and the network topology. The security policy is expressed from the standpoint of a 'role'. The role is used to define a function of a network through the service is sent/received and assigned to various hosts or a host group in the network.

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